

Table CT6. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2016, Kansas

Year	Coal	Natural Gas ^a	Petroleum						Hydro-electric Power ^{e,f}	Biomass		Geo-thermal ^f	Solar ^{f,i}	Retail Electricity Sales	Net Energy ^{f,j}	Electrical System Energy Losses ^k	Total ^{f,j}
			Distillate Fuel Oil	HGL ^b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total		Wood and Waste ^{f,g}	Losses and Co-products ^h						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels						Million kWh				Million kWh				
1960	175	121	1,405	1,321	4,557	1,924	8,535	17,742	0	--	--	--	NA	2,932	--	--	--
1965	148	155	1,553	1,530	3,535	755	9,711	17,084	0	--	--	--	NA	3,902	--	--	--
1970	103	184	2,515	1,985	2,777	701	9,170	17,149	0	--	--	--	NA	4,548	--	--	--
1975	134	152	3,532	3,125	2,406	2,178	10,702	21,943	0	--	--	--	NA	6,214	--	--	--
1980	331	191	3,476	5,844	1,198	1,004	11,857	23,379	0	--	--	--	NA	7,845	--	--	--
1985	363	161	4,058	22,687	1,064	66	6,855	34,729	0	--	--	--	NA	7,167	--	--	--
1990	157	158	4,545	14,032	765	181	11,399	30,922	0	--	--	--	0	8,087	--	--	--
1995	138	175	4,818	3,140	995	18	9,415	18,386	0	--	--	--	0	9,356	--	--	--
1996	154	158	4,825	8,100	1,021	133	9,538	23,616	0	--	--	--	0	9,231	--	--	--
1997	137	162	5,268	11,657	1,055	168	8,050	26,197	0	--	--	--	0	9,365	--	--	--
1998	109	145	4,850	11,109	1,156	184	7,931	25,230	0	--	--	--	0	9,762	--	--	--
1999	108	128	4,824	17,786	725	223	7,835	31,394	0	--	--	--	0	10,215	--	--	--
2000	134	139	4,478	14,315	716	401	7,577	27,486	0	--	--	--	0	10,222	--	--	--
2001	165	116	4,902	8,865	969	317	10,358	25,411	0	--	--	--	0	10,569	--	--	--
2002	178	138	4,470	7,962	1,017	172	9,677	23,299	0	--	--	--	0	10,195	--	--	--
2003	158	125	4,947	14,062	1,094	624	9,324	30,051	0	--	--	--	0	10,382	--	--	--
2004	203	116	5,402	12,142	1,289	667	9,601	29,101	0	--	--	--	0	10,879	--	--	--
2005	205	118	4,936	153	1,195	333	8,852	15,469	0	--	--	--	0	11,165	--	--	--
2006	237	132	5,498	66	1,275	619	8,885	16,343	0	--	--	--	0	11,462	--	--	--
2007	241	143	4,901	15,167	1,020	464	8,424	29,977	0	--	--	--	0	10,885	--	--	--
2008	162	129	5,480	375	800	1,220	7,561	15,436	0	--	--	--	0	10,967	--	--	--
2009	105	125	4,616	477	814	444	7,632	13,984	0	--	--	--	0	10,087	--	--	--
2010	111	124	5,084	388	626	361	R 9,132	R 15,591	0	--	--	--	0	10,651	--	--	--
2011	104	128	4,556	635	627	274	R 8,112	R 14,204	0	--	--	--	0	10,807	--	--	--
2012	88	134	4,470	527	556	250	R 8,425	R 14,227	0	--	--	--	0	11,041	--	--	--
2013	85	136	4,409	591	539	176	R 7,933	R 13,648	0	--	--	--	0	11,009	--	--	--
2014	121	R 135	4,850	429	R 407	180	R 7,471	R 13,337	0	--	--	--	0	11,494	--	--	--
2015	115	R 140	4,658	538	R 878	243	R 7,701	R 14,019	0	--	--	--	0	11,227	--	--	--
2016	104	140	4,926	378	999	574	7,942	14,819	0	--	--	--	0	11,414	--	--	--
Trillion Btu																	
1960	4.0	125.7	8.2	5.5	23.9	12.1	52.5	102.2	0.0	0.7	NA	NA	NA	10.0	242.6	24.7	267.3
1965	3.3	154.3	9.0	6.4	18.6	4.7	60.1	98.8	0.0	1.3	NA	NA	NA	13.3	271.0	31.8	302.8
1970	2.2	184.1	14.7	7.4	14.6	4.4	56.1	97.2	0.0	2.0	NA	NA	NA	15.5	301.1	37.5	338.6
1975	2.7	148.8	20.6	11.4	12.6	13.7	65.5	123.8	0.0	3.9	NA	NA	NA	21.2	300.4	50.9	351.3
1980	7.1	189.7	20.2	21.2	6.3	6.3	72.7	126.8	0.0	0.0	NA	NA	NA	26.8	350.4	64.3	414.7
1985	7.8	161.3	23.6	80.5	5.6	0.4	42.7	152.8	0.0	0.0	1.4	NA	NA	24.5	347.9	56.0	403.9
1990	3.8	157.7	26.5	50.0	4.0	1.1	70.5	152.2	0.0	4.7	1.3	0.0	0.0	27.6	347.3	68.8	416.1
1995	3.3	176.0	28.0	11.2	5.2	0.1	59.1	103.7	0.0	4.0	1.9	0.0	0.0	31.9	320.9	77.4	398.3
1996	3.9	157.9	28.1	28.8	5.3	0.8	59.5	122.5	0.0	3.9	0.8	0.0	0.0	31.5	320.5	77.5	398.0
1997	3.4	162.8	30.7	41.5	5.5	1.1	49.6	128.3	0.0	3.2	1.3	0.0	0.0	32.0	330.9	79.5	410.4
1998	2.7	144.0	28.2	39.5	6.0	1.2	49.4	124.3	0.0	3.0	1.5	0.0	0.0	33.3	308.9	80.0	388.9
1999	2.7	127.6	28.1	63.2	3.8	1.4	48.6	145.1	0.0	3.1	1.4	0.0	0.0	34.9	314.6	84.6	399.2
2000	3.2	139.7	26.1	50.7	3.7	2.5	47.2	130.2	0.0	2.5	1.6	0.0	0.0	34.9	312.1	84.4	396.5
2001	3.9	116.4	28.5	31.4	5.1	2.0	64.8	131.7	0.0	2.9	1.8	0.0	0.0	36.1	292.7	85.7	378.4
2002	4.3	139.0	26.0	28.2	5.3	1.1	60.4	121.1	0.0	2.9	3.8	0.0	0.0	34.8	305.8	82.4	388.2
2003	3.8	126.9	28.8	50.1	5.7	3.9	57.8	146.3	0.0	2.8	5.9	0.0	0.0	35.4	321.2	84.0	405.2
2004	5.0	117.4	31.4	43.2	6.7	4.2	60.2	145.6	0.0	2.8	6.6	0.0	0.0	37.1	314.6	89.3	403.9
2005	5.0	119.4	28.7	0.5	6.2	2.1	54.8	92.4	0.0	3.0	7.7	0.0	0.0	38.1	265.6	91.0	356.6
2006	5.7	134.7	31.9	0.2	6.6	3.9	55.0	97.7	0.0	0.6	10.0	0.0	0.0	39.1	287.8	92.5	380.3
2007	5.8	145.1	28.3	53.5	5.3	2.9	52.0	142.0	0.0	0.6	13.1	0.0	0.0	37.1	343.7	88.0	431.8
2008	4.0	133.4	31.7	1.3	4.1	7.7	46.5	91.3	0.0	0.6	24.7	0.0	0.0	37.4	291.4	87.9	379.3
2009	2.5	127.3	26.7	1.7	4.2	2.8	47.1	82.4	0.0	0.6	22.6	0.0	0.0	34.4	269.8	82.3	352.0
2010	2.7	126.4	29.4	1.5	3.2	2.3	R 56.7	R 93.0	0.0	R 0.8	24.9	0.0	0.0	36.3	R 284.1	86.8	R 371.0
2011	2.5	131.0	26.3	2.4	3.2	1.7	R 49.9	R 83.5	0.0	R 2.8	24.3	0.0	0.0	36.9	R 280.9	87.4	R 368.3
2012	2.0	137.0	25.8	2.0	2.8	1.6	R 51.9	R 84.1	0.0	2.5	22.8	0.0	0.0	37.7	R 286.0	89.0	R 375.0
2013	2.0	138.5	25.4	2.3	2.7	1.1	R 48.7	R 80.3	0.0	1.9	23.8	0.0	0.0	37.6	R 284.1	86.7	R 370.8
2014	2.9	R 138.0	28.0	1.6	2.1	1.1	R 45.9	R 78.8	0.0	R 1.9	28.0	0.0	0.0	39.2	R 288.8	89.5	R 378.3
2015	2.8	R 144.6	26.9	2.1	4.4	1.5	R 47.4	R 82.3	0.0	2.0	26.8	0.0	0.0	38.3	R 296.7	87.4	R 384.2
2016	2.3	144.8	28.4	1.4	5.1	3.6	48.7	87.2	0.0	1.8	26.4	0.0	0.0	38.9	301.5	85.3	386.9

^a Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

^d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

^h Losses and co-products from the production of fuel ethanol.

ⁱ Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

^j For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^k Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

kWh = Kilowatthours. -- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.